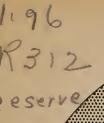
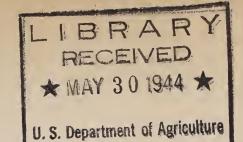
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SOIL CONSERVATION LITERATURE

SELECTED CURRENT REFERENCES

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Compiled by the library staff of the U.S. Soil Conservation Service, Washington, D.C.

The publications listed herein may, in most cases, be borrowed from the Library of the Soil Conservation Service by members of the Washington and field staffs.

Loan requests should be submitted on Form SCS-405; those from field offices being routed through Regional Office Libraries. Complete citations, together with library call numbers, should always be included.

Ruby W. Moats Librarian

PERIODICAL ARTICLES

Civilian Conservation Corps

Gilbertson, G.H. The CCC marches on. U.S.Soil Conserv.Serv.Soil Conserv. 7(9):212-214,222,illus. Mar.1942. 1.6 So3S

Civilian Defense

Ryerson, G.E. Mobilization of service equipment for civilian defense. U.S.Soil Conserv.Serv.Soil Conserv.7(9):211-212. Mar.1942. 1.6 So3S

Climate

Climate - the main soil determinant. Taylor Kochester 29(2):46-47,illus.

Second Quarter 1939. 470 T21

"A new theory, deservedly called the Russian soil theory, has found all but universal acceptance by geographers and pedologists of our country. Fince C.F. Marbut's English translation from the German translation of the Russian, Glinka's, 'Great Soil Areas, 'in the 'twenties, 'the conception of soils has completely changed here. Previously, physiographic, geologic and other concepts had prevailed in America. Since that time climate has been considered the greatest soil determinant."

Conservation

Hathaway, E.S. Conservation and the web of life. La.Conserv.Rev.10(1): 24-26, illus. Spring 1941. 279.9 L930
**References, "p. 26.

Walcott, F.C. Defense waste of natural resources can be avoided, says conservationist. Ky. Sportsman 4(3):2-3,20-21, illus. Feb. 1342. 410 K41

Conservation. Study and Teaching

Collier, J.E. Conservation education in Arkansas. Jour. Geog. 41(3):101-111. Nar. 1942. 278.8 J82

Dams

Forris, B.T. and Johnson, D.C. Hydraulic design of drop structures for gully control. Amer. Soc. Civ. Engin. Proc. 68(1):17-48, illus. Jan. 1942. 290.9 Am 3P

"In the stabilization of gullies, small overflow dams are used to retain silt and to control the stream grade. These dams are simple drop structures similar to those used in irrigation canals. In this paper the development of rules for the proportioning of such dams

is described in terms of the hydraulic requirements for structure performance. The formulas included in the design rules are presented graphically-formconvenience in application. These rules are based on the accumulated experience of engineers in irrigation and soil conservation work and on the results of a series of laboratory test programs."

Rode, M.C.H. Earth dams must not be left to their fate. Farmers Weekly [Bloemfontein]62:1090. Jan. 7,1942. 24 F225

Webb, C.G. Straw dam to offset rainfall deficiency. Farmer-Stock an 55(4):98, illus. Feb. 15, 1942. 6 0k45

Farm Forestry

Lauderburn, D.E. Accomplishments in forestry on farms in the South.

Jour. Forestry 40(2):81-85. Feb. 1942. 99.8 F768

Paper presented at the 41st annual meeting of the Society of American Foresters in Jacksonville.

Discussions of this paper appear on pages 85-89.

Robbins, Thomas. Farm forestry. N.C.State Agr.17(2):24,illus. Dec. 1941. 276.8 N81

Farm Management

Coplend, A.A. Farm management under irrigation. Four basic principles are assential to success. New Zeal. Jour. Agr. 63(5):389-392, illus. Nov. 15, 1941. 23 N48J

"Irrigation is the means of high production, but if this is to be

achieved certain principles must be remembered.

"(1)A good pasture is the most valuable asset on the farm. The pasture paddock is the manufacturer of 95 per cent of our stock foods. Its efficiency depends upon its composition. If greatest returns are to be obtained from irrigation every care must be taken to establish good pastures. It does not pay to water weeds.

"(2)Irrigation must be followed throu h; adequate soil moisture

must be kept up to the plant at all times.

"(3)A pasture must be control-stocked and not overstocked.

"(4)Irrigation development must be gradual, steady and thorough building-up programme."

Federal Water Policies

Hoyt, W.G. Unusual events and their relation to federal water policies.

Amer. Soc. Civ. Engin. Proc. 68(2):211-224, illus. Feb. 1942. 290.9 Am3P

Within the 10-yr period between 1930-1940 there were profound changes in federal water policies and more than a tenfold increase in federal activities designed to modify the runoff phase of the rainfall-runoff cycle. The total federal expanditure for all purposes increased only about two and one-half fold during the same decade.

During the Tiseal year 1940 alone, some \$500,000,000 or \$600,000,000 of federal money were spant on measures and practices relating to storage and appurtenant works for irrigation, power, fl od control,

water supply, water spreading, debris control, recreation, and wildlife refuge; upstream engineering, agricultural, and land-use measures and practices; and all related activities designed to obtain beneficial conservation, control, regulation, and use of water. During 1930 the sum of money so expended was only about one tenth as much. The purpose of this paper is to inquire into the basic reasons underlying the changes in water policies and the large increase in activities and to discuss in a general way their extent, aims, and objectives."

Floods and Flood Control

- Poston society of civil engineers.Committee on floods. Report...

 Poston Soc.Civ.Engin.Jour.29(1,sect.2):1-160. Jan.1942. 290.8 B65
- Doran, W.E. The Ouse flood problem. G.og. Jour. 97(4):15-235, illus. Apr. 1941. 472 G29
- Larson, G.E. Research for flood control data. Nany neglected sources will yield important information to the patient investigator. Civ. Engin. 12(3):131-134,illus. Mar. 1942. 290.8 C49

"In his haste to secure the hydrologic data necessary for the design of a flood control project, the busy engineer often overlooks the possibility that others may have been over the same ground before. Too late he discovers that much trouble and expense could have been saved if he had had access to the existing records in time. That such existing material is not always easily located, Mr. Larson readily admits, and hence this article. In it he explains what procedures to follow in running down such 'buried' information as may exist in newspapers, county records, hearings before Congressional committees, reports of Jovernment departments, court records, and other sources."

- NcAlber, J.B. and Drisko, J.B. Evaluation of flood losses and benefits. Discussion. Amer. Soc. Civ. Engin. Proc. 68(2):332-338. Feb. 1942. 290.9 Am3P

 Paper with above title, by Edgar E. Foster, was published in May 1941 Proceedings.
- Todd, O.J. Taming "flood dragons" along China's Hwang Ho. Natl. Geog. Mag. 81(2):205-234, illus. Fab. 1942. 470 N213

Grasses

- Lancastir, R.A. Rhodes grass for hay and pasture in South Texas.

 Cattleman 28(10):33,36-40,illus. Mar.1942. 49 029

 "Rhodes grass is an excellent crop in South Texas for pasture, hay, silage or seed. Known scientifically as Chloris gayana, it is a perennial with leafy, slander, erect stems two to four feet tall with long and narrow blades."
- Love grass thrives on eld field[Greer co.,Okla.] Farmer-Stockman 55(1): 14,illus. Jan.1,1942. 6 Ok45

Wilsie, C.P. and Hughes, H.D. Bromograss! It's a high-yielding, drouthresistant and winter-hardy pasture crop for Iowa. Farm Sci. Eptr. 3(1):10-13, illus. Jan. 1942. 275.28 F22

Grassland Forming

Comple, A.T. Bulldozers and grade A milk. U.S. Soil Conserv. Serv. Soil Conserv. 7(9):215-218, illus. Nar. 1942. 1.6 So35

"Judging from the findings of experiment stations and the experience of farmers, we have ample justification for believing that we can swing a long way toward grassland farming and at the same time meet the wartime demands for agricultural products. These objectives can be accomplished by making greater use of grass and logumes in crop rotations along with proper liming and fertilizing, and be establishing good pastures and meadows on abandoned lands that are adapted to grass, and on misused land in cultivation but which crodes too readily to be used regularly for cultivated crops."

Green Manuring

Thorne, D.W. Green minure crops and furtilizers for Utah orchards. Utah Farmer 61(10):8,19. Jan.10,1942. 6 D45

Highway Erosion Control

Bowers, H.D. Importance of flatter cut slopes in stabilization by vegetative processes. highway Mag.33:28-30, illus. Feb. 1942. 288.8 H53

"Erosion is provented and maintenance funds saved by proper construction as described in article reprinted from Chlifornia highways and Public Works.

Glass, J.S. Public highways and erosion control. Ill. Univ. Bul. 39(22): 78-20. Jan. 20, 1942. 290.9 Il62

Hydraulic Russarch

American society of civil engineers. Special committee on hydraulic research. Progress of society's hydraulic research. Fighth annual report. Civ. Engin. 12(2):113-114, illus. Feb. 1942. 290.8 C42

Hydrology

Jarvis, C.S. Early contributions to Mississippi River hydrology.

Amer. Soc. Civ. Ungin. Proc. 63(3): 421-444, illus. Mer. 1942. 290.9 Am3P

"Synopsis. Recent research in runoff characteristics of the

Mississippi River basin has disclosed cortain values among the early
records which had apparently been neglected, if indeed they had ever

been recognized outside the group responsible for assembling them.

These data generally are to be found in some form or other in old
reports and records of the War Department, mainly in publications of
the corps of Engineers and the dississippi hiver Commission.

"The fragme tary hydrologic data of the carliest record periods
or assembled in this paper. They are extended by derivation, estimation,

or comparison with related data from neighboring stations, and tentatively integrated into a continuous record covering 122 years, and in 1938. Incorporated within the record are the discharge determinations for the 33 years ending with 1360, as published by the late A.A. Humphrey's, Hon. M. Am. Soc. C. E., and Henry L. Abbot, with such adjustments as were found necessary to conform to the hydrographs of calendar years. Likewise, other results, official or unofficial, published or unpublished, were taken into consideration in compiling these basic hydrologic data. A sharp distinction has been made between the official quantities and those derived or estimated. However, such controls and cross references as are available have been used freely, so that the final results, as here submitted, are as nearly beyond challenge as it seems practicable to obtain at this time.

Prends of both precipitation and the resulting runoff depths from year to year, or from decade to decade or other record segment, are disclosed, with fair correlation generally for the 5-yr or longer period means, and to a lesser extent, on an annual or even a monthly

basis."

Implements and Machinery

Chase, L.W. A study of subsurface tiller blades. Agr. Angin. 23(2):43-45,50,illus. Feb. 19/2. 58.8 Ag83

"Paper presented December 3,1941, at the fell meeting of the American Society of Agricultural Angineers at Chicago."

Duloy, F.J. and Lussel, J.C. Machinery requirements for farming through crop residues. Agr. Engin. 23(2):39-42, illus. Feb. 1942. 58.8 Ag83

Morchaad, H.A. Equipment for subsurface tillage. Agr. Engin.23(2):46,64, illus. Feb.1942. 58.8 Ag83

"Paper presented December 3,1941, at the fall meeting of the American Society of Agricultural Engineers at Chicago."

Infil tration

Li,L.L., Anthony, R.D. and Morklo, F.G. Influence of orchard soil management upon the infiltration of water and some related physical characteristics of the soil. Soil Sci. 53(1):65-774, illus. Jan. 1942. 56.8803 "References, "p.74

Smith, H.L. and Loopold, L.B. Infiltration studies in the Pecos River Watershed, New Mexico and Texas. Spil Sci. 53(3):195-204, illus. For 1942. 56.8 Eo3

"References, "pp.203-204.

"Artificial rainfall was applied to 264 plots, 1.2- by 30-inches, representing various soi and variated types in the Pecos watershed. In general the soils were shallow, calcareous, heavy in texture, slightly alkaling in reaction (ph 7.6-8.5), and developed under an annual rainfall of 1.-18 inches. The predominant vegetal types were desert shrub, grassland, and pinon-juniper woodland.

"Soil samples from 126 plots were analyzed in the laboratory, and the data analyzed by statistical methods. The investigation showed a highly significant positive linear correlation between the final

infiltration rate and votetal density. The rate of infiltration showed a highly significant negative correlation with dispursion ratio, amount of dispersed clay, and silt plus clay. The 5-µ clay content showed a significant negative correlation with the final rate of infiltration."

Irrigation and Irainage

- Footh, A.W. The porteles region: a pump irrigation district in the Llano Estacado. Mcon.Geog.18(1):[97]-105, illus. Jun. 1942. 278.8 Ec7
 - "The Forteles region in Roosevelt county, New Mexico, one of the areas in the Llano Estacado where pump irrigation is carried on, has been serving as an excellent testing ground in answering the questions facing those interested in utilizing ground water."
- Clarenbach, F.A. Putting order into drainage programs. U.S.Bur.Agr. Depn.Lend Policy Rev.5(2):19-22. Feb.1942. 1 Ec7La "Two reasons for improving ways and means of drainage: The need for expanding food production and the possibility that land drainage may have a prominent place in a post-war rural works program."
- Darley, Sir Darnard. The development of irrigation in India. Roy. Soc. Arts Jour. 90 (4602): 39-56. Dec. 12, 1921. 501 1827J
- Fichardt, J. Water where and when wanted. Irrigation's vital role on the farm, in jetting the best from the land. Installations to suit many needs. Farmers Weekly[Bloemfontein]62:1035, illus. Jan. 7,1942. 24 F225
- Gomez-Perez, Francisco. Datos estadisticos de la Comision nacional de irrigacion. Irrig.en Mex.22(5):335-337, illus. Sept./Oct. 1941. 55.8 Ir76
 - Spanish. Translated title: Statistical data of the Mational commission of irrigation.
- Gomez-Perez, Francisco. Mexican irrigation in the sixteenth century.

 Civ. Engin. 12(1): [24]-27, illus. Jan. 1942. 290.8 C49

 "Too often the early Spanish pioneers are thought of solely in terms of their conquests and explorations. An examination of their irrigation works proves that they also had outstanding engineering ability. Ispecially was this shown around the early missions, where the padres combined the missionary spirit with engineering and administrative talent. Prompted by excellent examples in their mother country and sided by an Indian civilization long experienced in irrigation, they planned and executed extensive projects without benefit of construction equipment. This paper by Mr. Gomez-Perez was presented before the irrigation Division of the Society's Convention in San Diego."
- Irrigation is problem of aconomics, says engineer. Hawaii Farm and Home 4(12):6. Dec.15,19/1. 25 H3191

- Jones, L.A. Draina pass a conservation practice. Agr. Engin. 23(3): 97-98, illus. Mar. 1942. 58.8 Agd3

 "Paper presented February 4,1942, at a meeting of the Southern Section of the American Society of Agricultural Engineers at Nemphis, Tenn."
- Kimball, Frank. What of the Western front? U.S.Soil Conserv.Serv. Soil Conserv.7(9):223-224. Mar.1942. 1.6 So3S Discussion of the Western water problems
- Stoddard, Corlton. Lest the modern rain makers. Successful Farming 40(2):[11],30-31,illus. Feb.1942. 6 Sul2

 "Profitable even on crops like corn and alfalfa, sprinkler irrigation powered by tractor or motors gives an answer to the weatherman."
- Villiams, G.R. Drainage of levecd areas in mountainous valleys. Amer. Soc.Civ.Engin.Proc.68(1):3-16, illus. Jan.1942. 290.9 Am3P

 "Various methods of disposing of the drainage from streams tributary to leveed areas are outlined in this paper.Briaf consideration is given to the characteristics of these methods in fulfilling the design criterion that local drainage must be disposed of without causing demage appraciably greater than if the streams could flow unobstructed to the main river at low stage.

"The details of a method of englyzing local hydrology and developing capacities of drainale structures under various conditions are presented. In phs show volumes and rates of rainfall and runoff used in the design storms and floods, and relations between selected capacities and available storage for numerous designs for drainage structures.

Discussion by Merrill Bernard, of above article, appears on pages 143-144

Kudzu

- Arbour, M.T. Kudzu is drefted. / rrog.Farmer(Niss.-Ark.-La.Ed.)57(3):53.
 Mar.1942. 6 So81
- Brink, Wellington. Kudzu a mender of tattered lands. Better Crops with Plant Food 26(1):10-13,38-40,illus. Jan. 1942. 6 B46
- From one kudzu crown: 34,000 ceres[Alabama] Prog.Farmer(Ga.-Ala.-Fla.Ed.) 57(2):12,illus. Feb.1942. 6 F945G
- Tisdalo, Sam. Kudzu in Alabama. Ala. Farmer 22(5):7. Feb. 1942. 276.8 All
- Webb, C.G. Kudzu becomes a glamour girl. Ark. Farmer 44(2):6-7, illus. Feb. 1942. 6 Ar42
- Willis, H.M. Kudzu for North Caroline. N.C. State Agr. 17(2):23,38,illus. Dec. 1941. 276.8 N81

Land, Minud

Bristow, James. Coal strippers practice conservation. Ill.Conserv., Fall Issue, 1941, pp.12-13, illus. 279.9 Il6Il

Logumos

Lounsbury, T.F. The new legumes. Successful Farming 40(2):20,58-59, illus. Feb.1942. 6 Sul2

"Their wise use in agriculture protects the coil, restores fertility, and provides valuable forage."

Oldershaw, A.W. Lupins as a light-land crop. [Wast Suffolk] [Gt.Brit.] Nin.Agr.Agr.Jour.48(3):164-168, illus. Dec.1941. 10 G79J "Reference, "p.168.

"Much of the light land of this country is, initially, very poor in lime, and in connexion with its cropping the claims of lupins are worthy of consideration, since they are the only leguminous crop which will grow on land seriously deficient in lime. They can be grown essily on the poorest of light land, and greatly enrich the soil in humus and nitrogen.

Where land has a very high degree of acidity, it is only with difficulty that the acidity can be completely corrected; in fact, it takes an appreciable time for any form of lime to get thoroughly incorporated with the soil. Hence, even after the application of some form of lime to very acid land, it is wise to grow, for the first year or two, crops which are not greatly affected by acidity, such as rye, oats, lupins or potatoes. At the present time the area devoted to lupins in Britain is comparatively small; it might with advantage be increased."

Schofield, J.L. Introduced Legumes in North Queensland. Queensland Agr. Jour. 56 (pt. 5): 378-388, illus. Nov. 1, 1941. 23 Q33 References, "p. 388.

"A trial carried out at the Europa of Tropical Agriculture, North Queensland, with numerous legumes comprising temperate, subtropical and tropical types is described.

"Results indicate that certain tropical legumes are satisfactory under coastal conditions in North Queensland, but temperate legumes are markedly unsuccessful.

"Information on the distribution, characteristics, planting and feeding value of the following tropical legumes is given:
Stylogenthes guienensis (Stylo), Stylogenthes guienensis, var.

subviscosus (hairy Stylo), Centrosema pubescens (Centro), Pueraria phaseoloides (Fuero), Calopogonium mucunoides (Calopo), Cajanus indicus (Pigeon pea) and Crotelaria usaremoensis (Croto).

"The possibilities of use of the above tropical legumes for presture, grassland renovation, green manuring and soil conservation is discussed."

Lespodeza

Cates, J.S. Lespedeza takes a state. Country Gent.112(2):12,50-51, illus. Feb.1942. 6 C333

"Green fields of Korean blanket Missouri, spreading a new plow-free agriculture from cotton regions to rich Corn Belt lands."

Locust Trees. Diseases

Grant, T.J., Stout, D.C., and Readey, J.C. Systemic brooming, a virus disease of black locust. Jour. Forestry 40(3):253-260, illus. Nar. 1942. 99.8 F768

"Literature cited, "p.260.

"Virus diseases differ from other plant diseases in many respects. The observations and data reported in this article provide the forester with a means of identifying the systemic brooming disease of black locust and should help him to recognize and understand the behaviour of diseases of this type when they are encountered in the forest."

Moisture

Anderson, A.R. Planning for moisture stability. Mont. Farmer 20(12): 7, illus. Feb. 15, 1942. 6 M764

Rain maker's aid. Moisture meter tells a western farmer if his soil needs water and, if so, how much irrigating he should do.

Business Week no.643, p.24, illus. Dec.27, 1941. 280.8 Sy8

Mulches

Bennett, H.H. Conserving soil and water with stubble mulch. Agr. Engin. 23(2):[37]-38,42,illus. Feb. 1942. 58.8 Ag83

"Paper presented December 3,1941, at the fall meeting of the American Society of Agricultural Engineers at Chicago."

Outlets

Christy, Donald. Outlot design for terraced lands. Agr. Engin. 23(1): 12-14, illus. Jan. 1942. 53.8 Ag83

"Conclusions.1. Most constructed outlets are so expensive that they cannot be justified from an economic point of view.

"2. The meadow strip has possibilities as an outlet even when the value of the land used is charged to the outlet.

"3. It may be cheaper and more satisfactory to use the steepest part of the field as an outlet rather than the more valuable natural depression.

"4. The road ditch may be a satisfactory outlet providing farmer and highway department cooperation can be secured.

"5. It may be cheaper for the farmer and the public to allow some cultivated land to erode than to attempt to terrace and construct expensive outlets.

"6. The rational run-off formula, while subject to considerable

error, will give satisfactory results in the hands of the average agricultural engineer.

"7. The best outlet engineer is one who can, after a critical analysis of labor and materials available, design the least expensive serviceable outlet, and is not the man who can, with unlimited funds, labor, and material, build a great monument."

Planimoters

Dickerson, L.M. An inexpensive planimeter. Jour. Forgstry 40(1):19-22, illus. Jan. 1942. 99.8 F768

Rain Gauges

Information on rain gauges. Calif.Gult.89(1):11. Jan.10,1942. 6 C12

Rainfall

Clarks-Hafstad, Katharine. Reliability of station-year rainfallfrequency determinations. Discussion. Amer. Soc. Civ. Engin. Proc. 68(1):145-151. Jan. 1942. 290.9 Am3P

'This paper by Katharine Clark-Hafstad was published in November 1940 Proceedings."

Visher, S.S. Regional contrasts in torrential rainfalls help to explain regional contrasts in erosion. Jour. Geol. 50(1):96-105, illus. Jan. Feb. 1942. 403 J82

"New data on rainfall intensity in the United States reveal notable regional contrasts in the amounts of rain received in short periods. In the eastern half of the United States there is a general southward increase in the amounts of rain received in short periods. The South receives about 50 per cent more water than the North in brief rains, but, in hard rains which last 8-24 hours, the Gulf coastal region receives more than twice as much rain as the northern part of the North. In the frequency of hard rains, the regions contrast is much greater, the deep South receiving large totals from ten to more than one hundred times as often as the North.

"Extensive comparable data on the extent of soil crosion have resulted from the Soil Conservation (ervice surveys of the eastern half of the United States. Despite many local variations in the extent of crosion, correlated with soil, slope, and land use, these data reveal a general southward increase in crosion upon comparable areas. A detailed analysis of the regional crosional contrasts in Indiana here summarized is followed by a more general summary for the regional contrasts in crosion and contrasts in erosion and be correlated with the frequency and intensity of hard torrential rains."

Rango and Pastur, Management

Combs, J.F. Preture and range improvement. East Texas cattlemen and farmers make further progress in range program during 1941. Coasta Cattlemen 7(12):[7]-9,illus. Feb.1942. 43.3 093

Daubonmirg, R.F. and Colwell, W.E. Some adaphic changes due to overgrazing in the 'gropyron-Poa prairie of southcastern Washington. Toology 23(1):32-40, illus. Jan. 1942. 410 Ec7

"Literature cited,"p.40.

"Summary: The most evicent effects of overgrazing in the Agropyron spicatum—Pos secunda prairie of southeastern Washington consist of the removal of the tall, dominant bunches of the perennial Agropyron and their replacement by dwarf annuals. This change involves a reduction in the mass of aerial shoots which would otherwise intercept precipitation as well as draw considerable water from the soil. Also, beneath the soil surface, plant succession involves the replacement of the coarse perennial roots of Agropyron by a tangle of shallow root systems produced by the annual plants.

"Resulting directly or indirectly from these vegetational changes caused by overgrazing, there is: (1) an increase in the amount of water accumulated in the soil during the winter, (2) a decrease in aeration of the soil, (3) a reduction in the ability of the soil surface to absorb water, (4) a reduction in the degree of aggregation of soil particles, (5) an increase in the population of bacteria, actinomyces, and molds in the upper decimeter horizon, (7) an increase in the nitrification power of the microflora, and (8) a decrease in available phosphorus."

Howe, C.B. Checking the limited grazing practice. U.S.Bur.Agr.Econ.
Land Policy Rev.5(1):28-30. Jan.1942. 1 Fe7La
Limited grazing practice is included in Agricultural Adjustment
Administration range program for 1942.

McIlvania, S.K. A plan for range usa. Mont. Farmer 20(12):[1], 23, illus. Fob. 15, 1942. 6 M764

"Good range management will result in soil and moisture conservation and continuous maximum yields of forage on the extensive range areas in central and eastern Montana; therefore, the principles of good range management are the stockman's primary concern. The most important of these are: Keeping the numbers of livestock for which the range is best adapted, timely seasonal use, and maintaining good distribution to obtain uniform use of the forage resources."

Struckmen, R.P. Limited grazing is the road to range conservation.

Mont. Former 29(10): 5, illus. J. n. 15, 1942. 6 1764

"Limited grazing, in place of deferred grazing, is being accepted as the best and most realistic approach to the range conservation problem..."

Reclamation of Land

Page, J.C. The final frontier - and what it means. U.S.Bur.Agr.Econ. Land Policy Rev.5(1):6-12. Jan.1942. 1 Ec7La

"Th. Commissioner of the Bureau of Reclamation, United States
Department of the Interior, writes here about the trumendous work of his or anization - vast in scope and highly significant in social implications. 'Bountoous benefits have already been reaped by the West and the entire Nation, 'he says. 'Those benefits are

only a promise of the immense material and human wealth which can be added to the United States by full Reclamation development of Western resources."

Research

- Hayes, Anson. Agricultural and industrial research parallels. Agr. Engin.23(1):15-18. Jan.1942. 58.8 Ag83
- . Nichols, M.L. Agricultural and industrial research parallels. Discussion. Agr. Engin. 23(2):59. Feb. 1942. 58.8 Ag83

 Paper by Dr. Anson Mayes, with above title, was presented at the fall meeting of the American Society of Agricultural Engineers at Chicago, December 1941, and published in the preceding issue of Agricultural Engineering.
 - Ramser, C.S. Agricultural and industrial research parallels. Discussion. Agr. Ingin. 23(2):62. Feb. 1942. 58.8 AgC3

 Above titled paper by Dr. Anson Hayes was presented at the fall meeting of the American Pociety of Agricultural Engineers at Chicago, December 1941 and published in the preceding issue of Agricultural Engineering.
 - Smith, W.E. Agricultural and industrial research parallels. Discussion. Agr. Engin23(2):62. Feb.1942. 58.8 Agr. Engin23(2):62. Feb.1942. 58.8 Agr. Engineer at the fall meeting of the American Society of Agricultural Engineers at Chicago, December 1941 and published in the preceding issue of Agricultural Engineering.

Reservoirs

Kerr, C.H. Forty years of reservoirs. Nont. Farmer 29(11):7. Feb. 1,1942. 6 N.764

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Quinturo, A.G. Los efectos de la deferestación en el regimen de los rios. Irri en Mex.22(5):339-347, illus. Cupt./Oct. 1941. 55.d Ir76

Spanish. Translatud title: Tre effects of deferustation on the regimen of rivers.

Run-off

- Borst, H.L.and Woodburn, Russell. The effect of mulching and methods of cultivation on run-off and crosion from Muskingum silt loam. Agr. Ungin. 23(1):19-22,24,illus. Jan. 1942. 58.0 A 383

 "Bibliography, "op. 21-22.
 Discussion by Francis A.Post, pp. 22,24.
- Fry, L.S. Surface runoff determination from rainfall without using coefficients. Discussion. --mor. Soc. Civ. In gin. Proc. 68(2):280-284.

 Feb. 1942. 390.9 Am3P

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Sedimentation and Silt

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"The Hopi Buttes area, which lies at the lowest point of the structural basin of deformation, contains Pliocene volcanic rocks of alkalic composition greater in volume than the sediments, and over 200 closely spaced volcanic necks or diatremes ranging from 500 to 4,000 feet in diameter, and arranged along a complex pattern of fractures.

"Flows are few in number, for the volcanism produced pyroclastic débris and lave domes. Deep erosion reveals that explosions produced funnel—shaped pipes which were rapidly filled with explosion débris, with material poured in by streams or with lave and viscous agglomerate erupted from below. Small rims protected many distremes for a time from filling by river—borne sedirents so that fine ash, gypsum, and calcium carbonate collected in their crater lakes to be later buried by coarser material as stream aggradation continued. The structure of the distreme fillings indicates that subsidence occurred after eruption."

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*2. In this region M.mexicanus frequently has a partial or complete second generation which in 1940 coincided with the germination of fall wheat.

"3. The extent of the field margins of strip-cropped wheat as compared to solid-planted wheat greatly influenced the amount of feeding injury by $\underline{\text{M.mexicanus}}$ as well as the amount of bait required to check the infestation.

"4. Strips of fall wheat bordered by small grain stubble suffered much more extensive injury than when bordered by sorghums even though considerable populations of the grasshopper were present in the serghums, indicating that even a partial replacement of wheat or barley by sorghums tends to alleviate the M.mexicanus problem.

"5.Weedy pastures, abandoned fields, and roadsides carried population of mexicanus similar to those in the stubble and the injury to adjoining wheat fields was comparable to that of fields adjoining stubble. Improving the condition of the pastures and climinating the roadside strips are desirable measures for combating the grasshopper problem.

"6. Thirty times more bait was used during August and September

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